APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/459,984	12/14/1999	OK BAE PARK	K-129	1879

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EXAMINER
NGUYEN, TOAN D

ART UNIT	PAPER NUMBER
2665	7

DATE MAILED: 03/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *14 December 1999* .

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-20* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-20* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) ☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All b)☐ Some * c)☐ None of:

        1.☒ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____ .

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) *5* .

4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: .

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharma et al.

(U.S. Patent 5,764,627) in view of Kudo et al. (U.S. Patent 5,148,429).

For claim 1, 4-5, 13-15 and 20, Sharma et al. disclose method and apparatus for a hands-

free speaker phone, comprising:

plurality of conversion processors, wherein each conversion processor is configured to

modulate one of a call processing request signal and transmission data provided by a user

application to create an interim modulated signal, and to demodulated the interim modulated

signal to create a secondary original signal, and wherein each conversion processor is also

configured to demodulated an externally provided signal and to provide the demodulated signal

to a corresponding user application (figure 3, col. 8 lines 17-38);

a main controller configured to process call processing request signals provided from at

least one of the conversion processors to generate call control data that is added to transmission

data in at least one header field, and wherein the main controller is configured to separate a

header data included in an externally provided signal (figure 15, col. 3 lines 14-16, col. 33 lines

15-18; and col. 46 lines 46-49);

a multiplexing/demultiplexing processor configured to logically multiplex signals output

from the main controller, and to demultiplex an external provided signal (figure 15, col. 33 lines

15-27). In claim 13, Sharma et al. disclose further a pulse code modulation (PCM) mode to create an interim modulated signal (col. 23 lines 17-20).

However, Sharma et al. do not explicitly disclose the main controller is configured to add or separate a header data signal. In an analogous art, Kudo et al. disclose the main controller is configured to add or separate a header data signal (figure 4, col. 2 lines 25-27, and col. 2 lines 39-46). One skilled in the art would have recognized the main controller is configured to add or separate a header data signal to use the teachings of Kudo et al. in the system of Sharma et al. Therefore it would have been obvious to one of ordinary skill in the art at the time invention, to use the main controller is configured to add or separate a header data signal as taught by Kudo et al. in Sharma et al.'s system with the motivation being to provide an arrangement of a voice terminal interface which converts a voice signal into one packet or plurality of packets (col. 2 lines 10-12).

For claim 2, Sharma et al. disclose a pulse code modulation (PCM) modulator configured to modulate a signal provided by a user application by PCM mode (col. 23 lines 17-20);

a digital signal processor configured to determine a type of a modulated signal provided from the PCM modulator and to output the modulated signal to a path corresponding to the determined type (figure 3, col. 8 lines 23-39); and

a demodulating/modulating portion configured to demodulated the modulated signal provided from the digital signal processor (col. 8 lines 23-39).

For claim 3, Sharma et al. disclose each conversion processor also includes a first line connector, configures to communicate with a user application, that is coupled to the PCM modulator (figure 11, col. 24 lines 4-11).

For claims 6-8, Sharma et al. disclose the multiplexing/demultiplexing processor comprises a modem processor for converting a call processing request signal and transmission data provided from the main controller to analog signals (col. 35 lines 23-26).

For claims 9, 11-12, 16 and 18-19, Sharma et al. disclose the call control data comprises at least one of a message type, a port discriminator, a user information, and a characteristic information (col. 33 lines 15-27).

For claims 10 and 17, Sharma et al. disclose wherein the message type is one of setting, release and maintenance of a call (col. 7 lines 48-51).
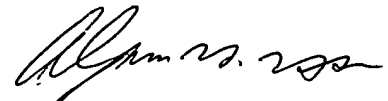
Contact Information

3.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 703-308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

TN
T.N.

ALPUS H. HSU
PRIMARY EXAMINER